(54) Title: A METHOD AND SYSTEM FOR CALCULATING AND VERIFYING THE INTEGRITY OF DATA IN A DATA
TRANSMISSION SYSTEM
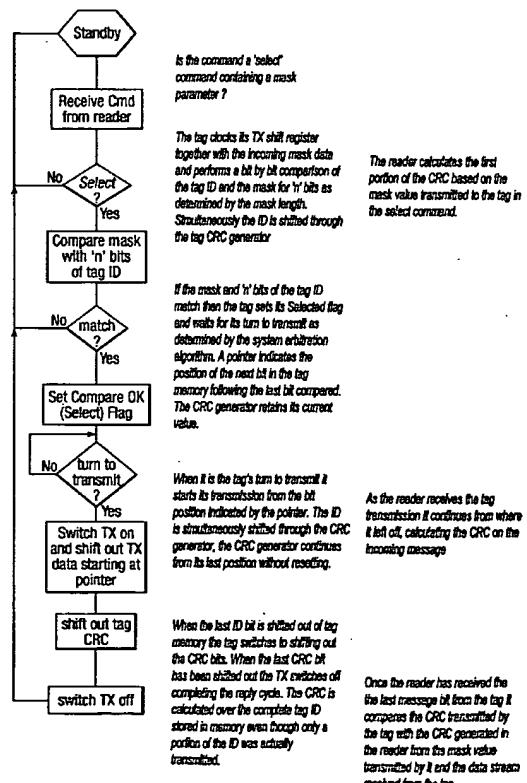
(57) Abstract: A method is described of calculating and verify-
ing the integrity of data in a data communication system. The
system typically comprises a base station and one or more remote
stations, such as in an RFID system. The method includes trans-
mitting a select instruction from the base station to said one or
more remote stations, the select instruction containing a data field
which matches a portion of an identity or other data field in one
or more of the remote stations; transmitting from a selected re-
mote station or stations a truncated reply containing identity data
or other data of the remote station but omitting the portion trans-
mitted by the base station; calculating in the base station a check
sum or CRC from the data field originally sent and the truncated
reply data received and comparing the calculated check sum or
CRC with the check sum or CRC sent by the remote station. A
system and transponder is also described.

ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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